

5 Abstract

Force assistance module for providing a load-dependent assistance force

10 The invention relates to a force assistance module (10) for providing a load-dependent assistance force, in particular for a lowerable overhead luggage compartment in an aircraft, comprising a housing (18), a spring system for generating the assistance force, of which spring system one end is coupled pivotally about an axis (Z) in the housing (18) and the other, opposite end defines a force application point (P), a force-transmitting device fastened to or in the vicinity of the force application point (P) for transmitting assistance force to a location remote from the force assistance module, a support (36), which is mounted rotatably in the housing (18) and on which a path (40) is provided, along which the force application point (P) is displaceable back and forth between a first end point (A) and a second end point (B), and an adjusting device (52), which interacts with the support (36) and a load sensor and which as a function of the load detected by the load sensor rotates the support (36) in order to vary the angle between the force application direction of the assistance force at the force application point (P) and the force-transmitting device and hence adapt the value of the assistance force acting upon the force-transmitting device to the detected load.

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Fig. 2